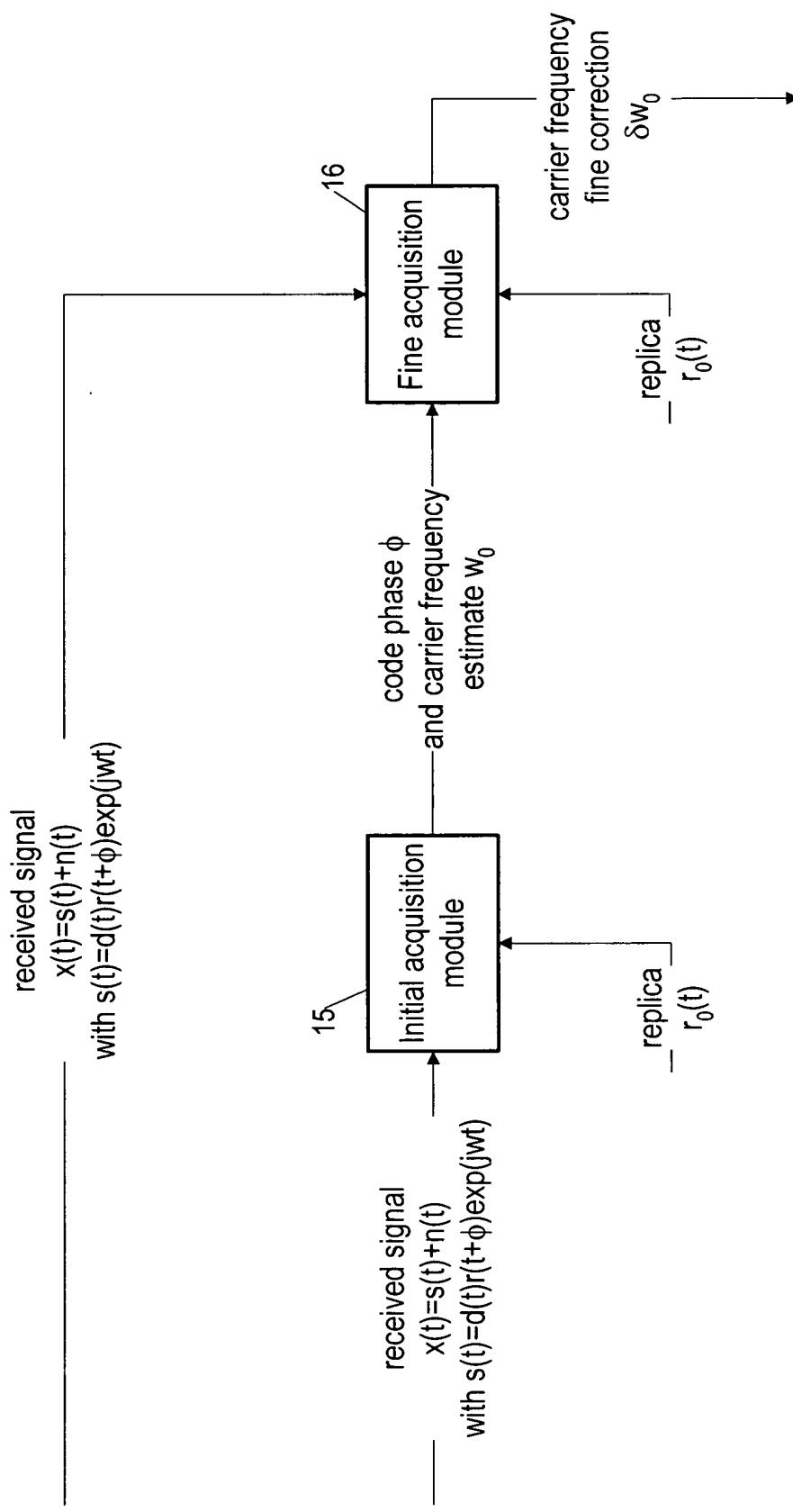
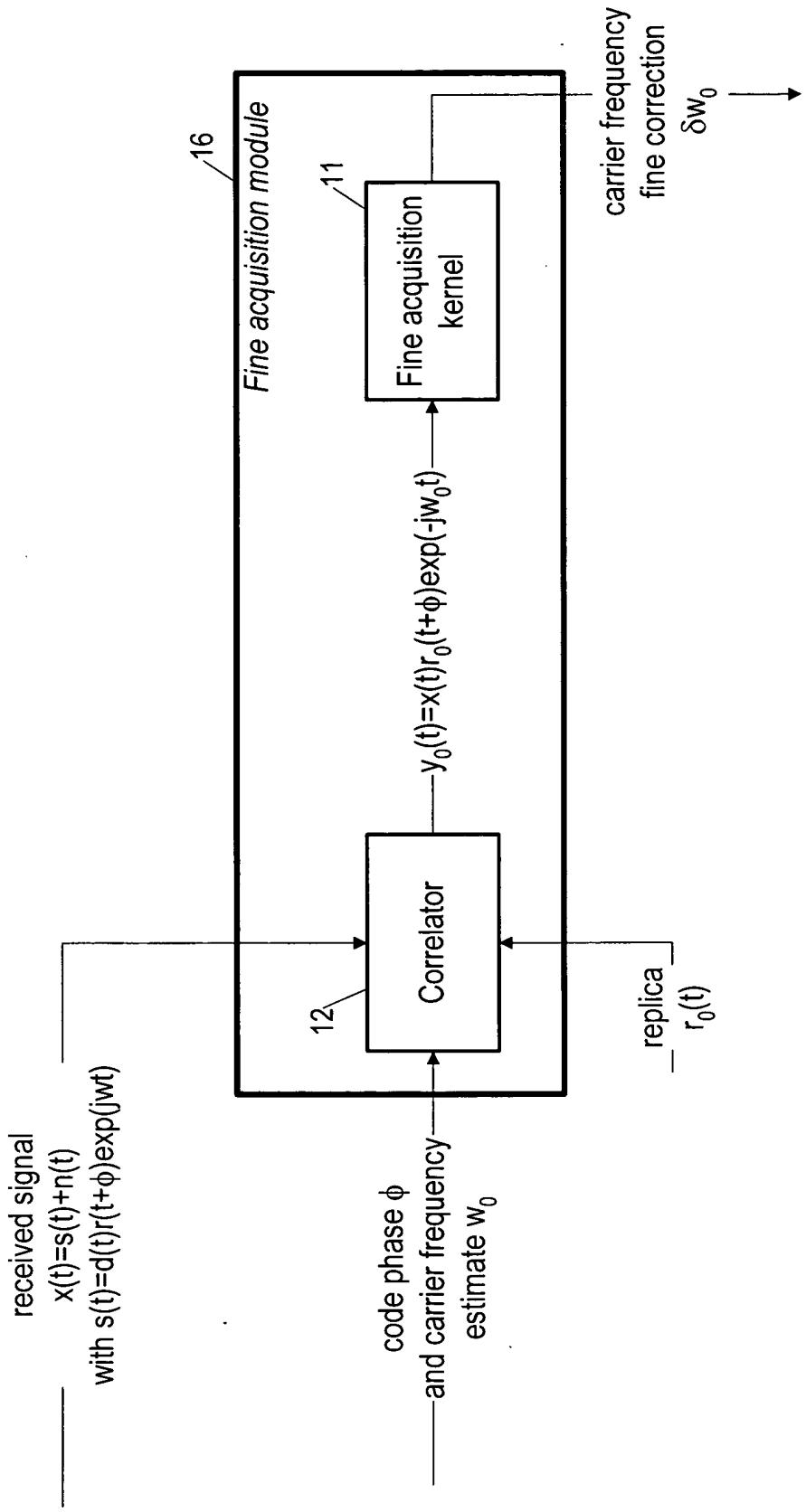


□ □ □ □ □ □ □ □ □ □ □



**Fig. 1A**



**Fig. 1B**

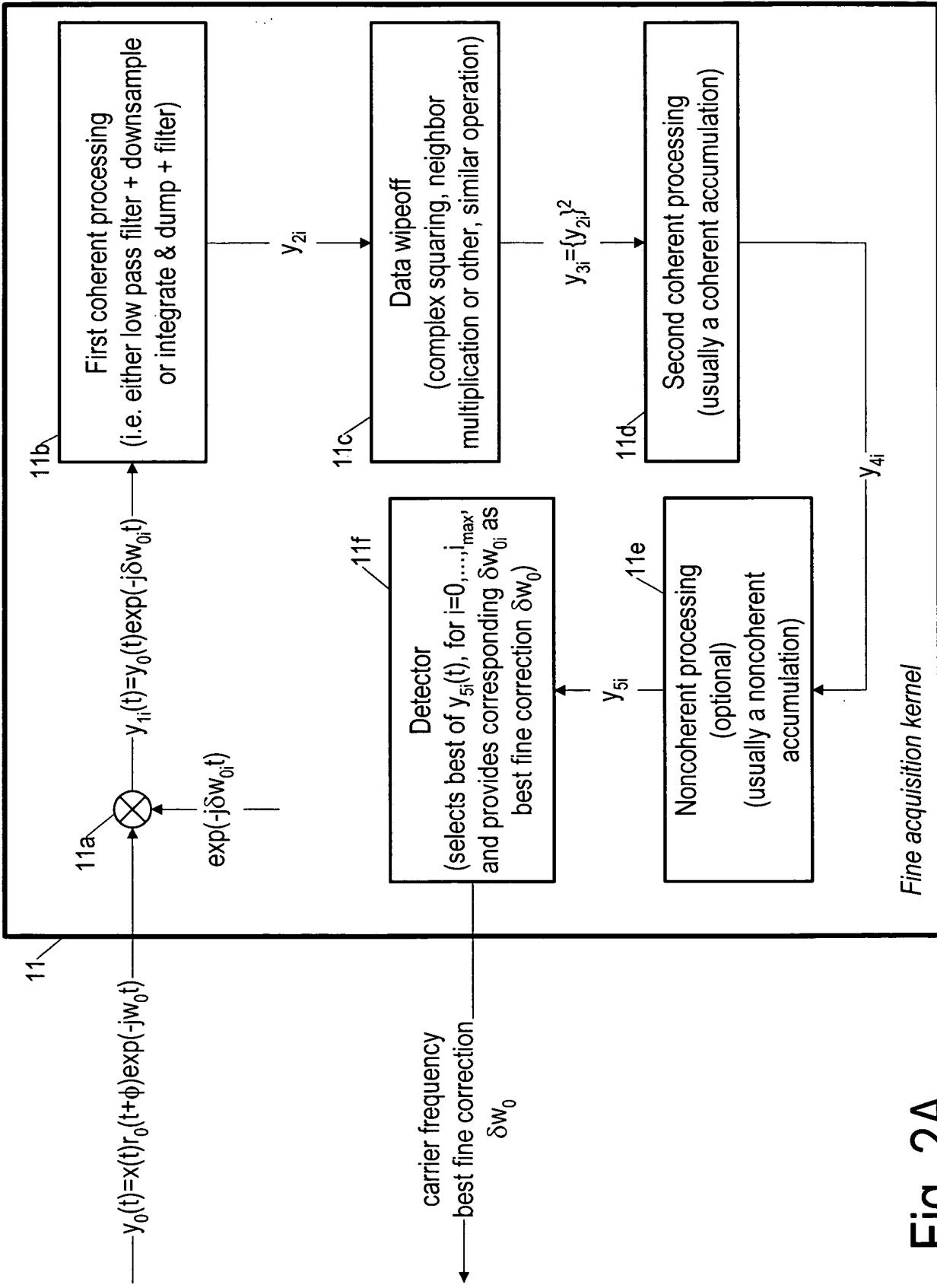
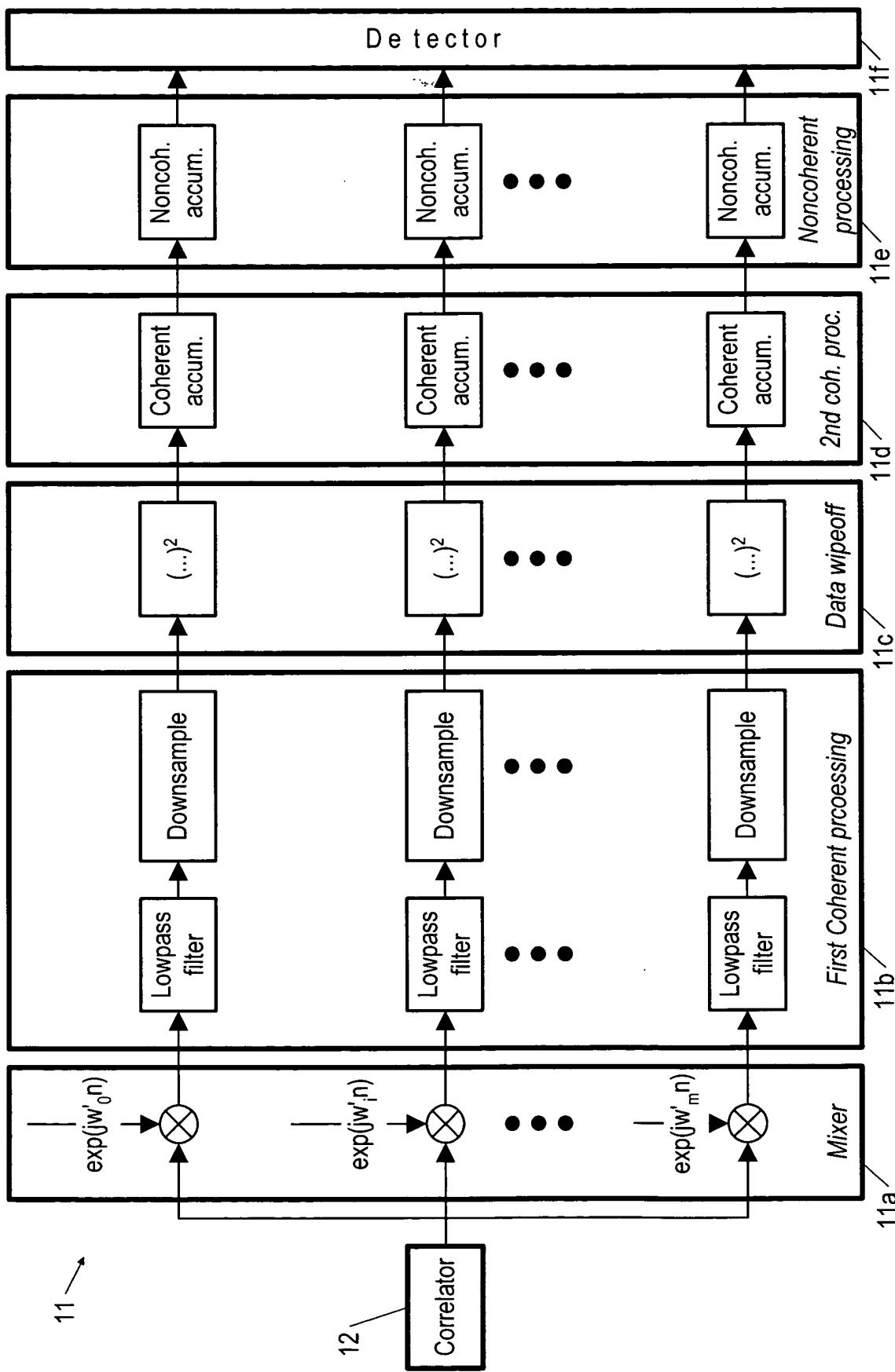


Fig. 2A

Fig. 2B



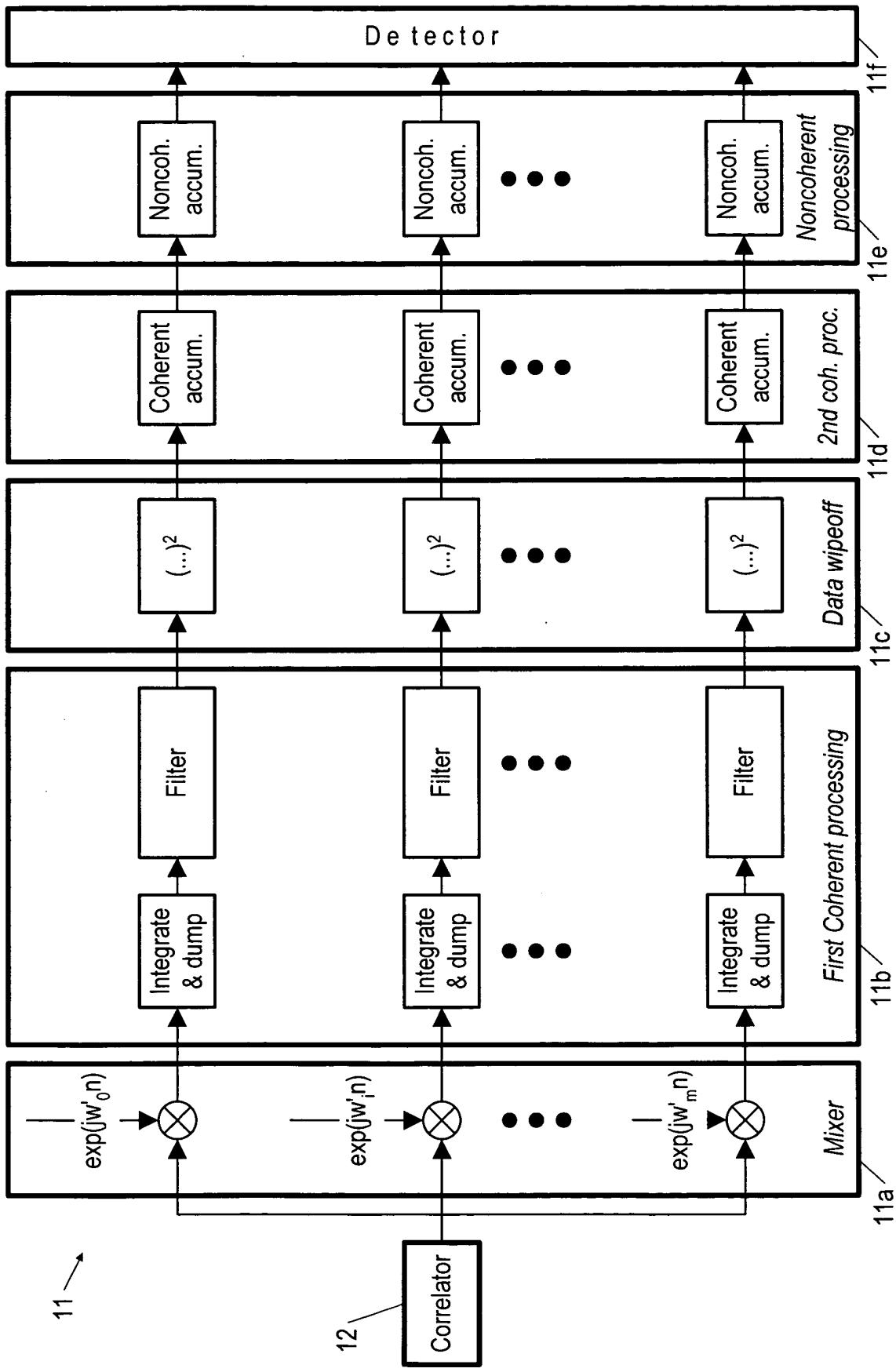


Fig. 2C

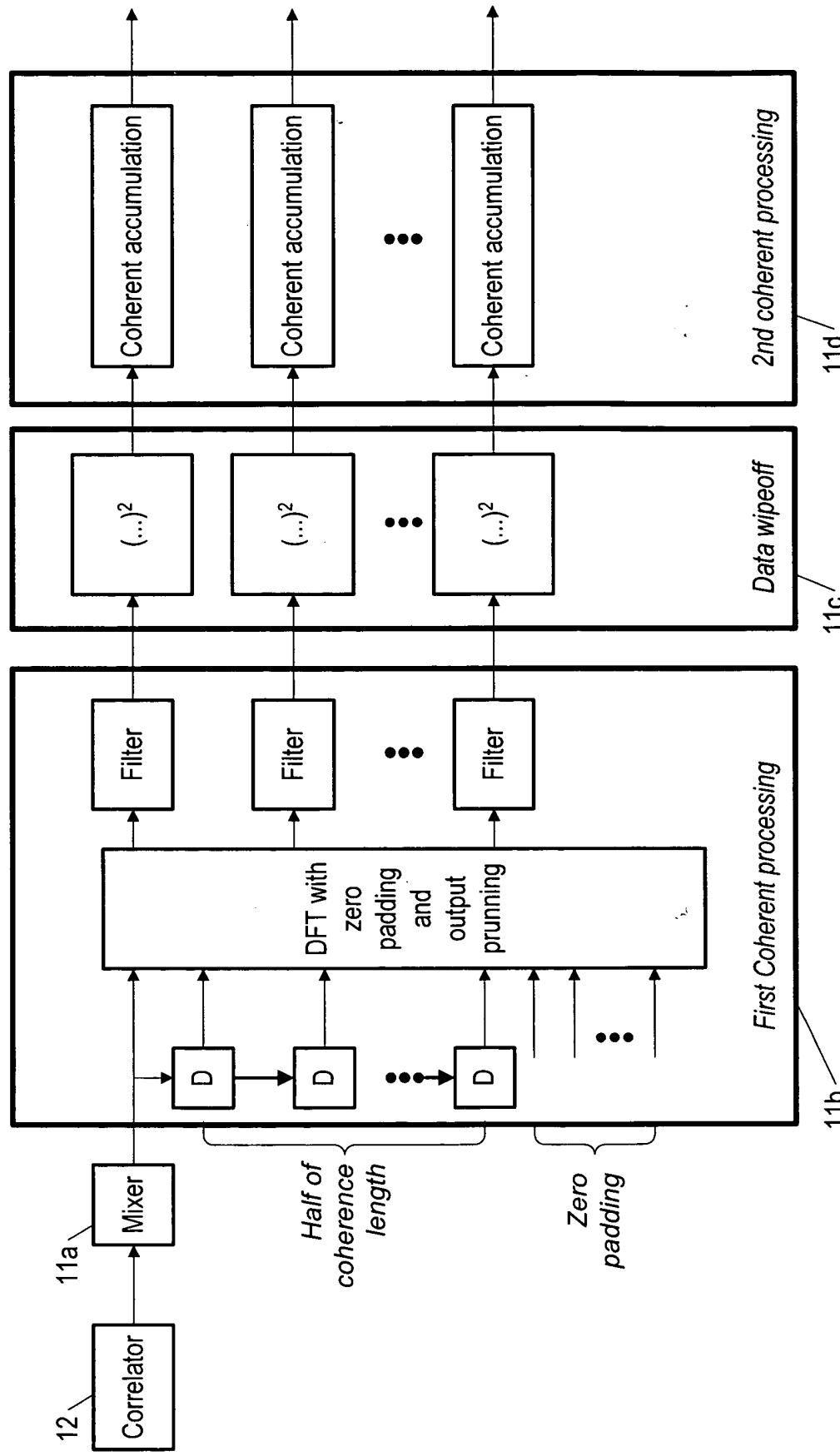
**Fig. 2D**

Fig. 3A

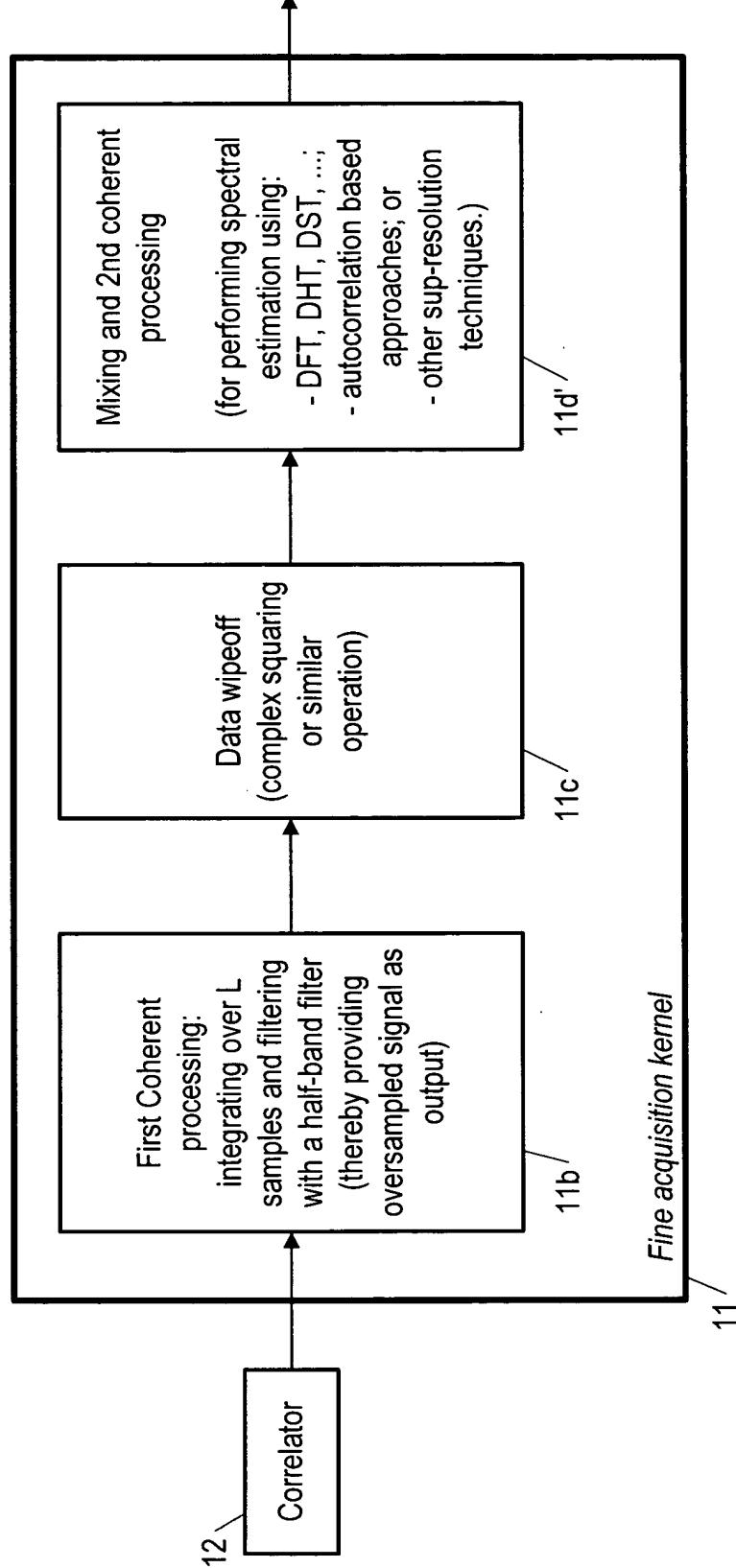
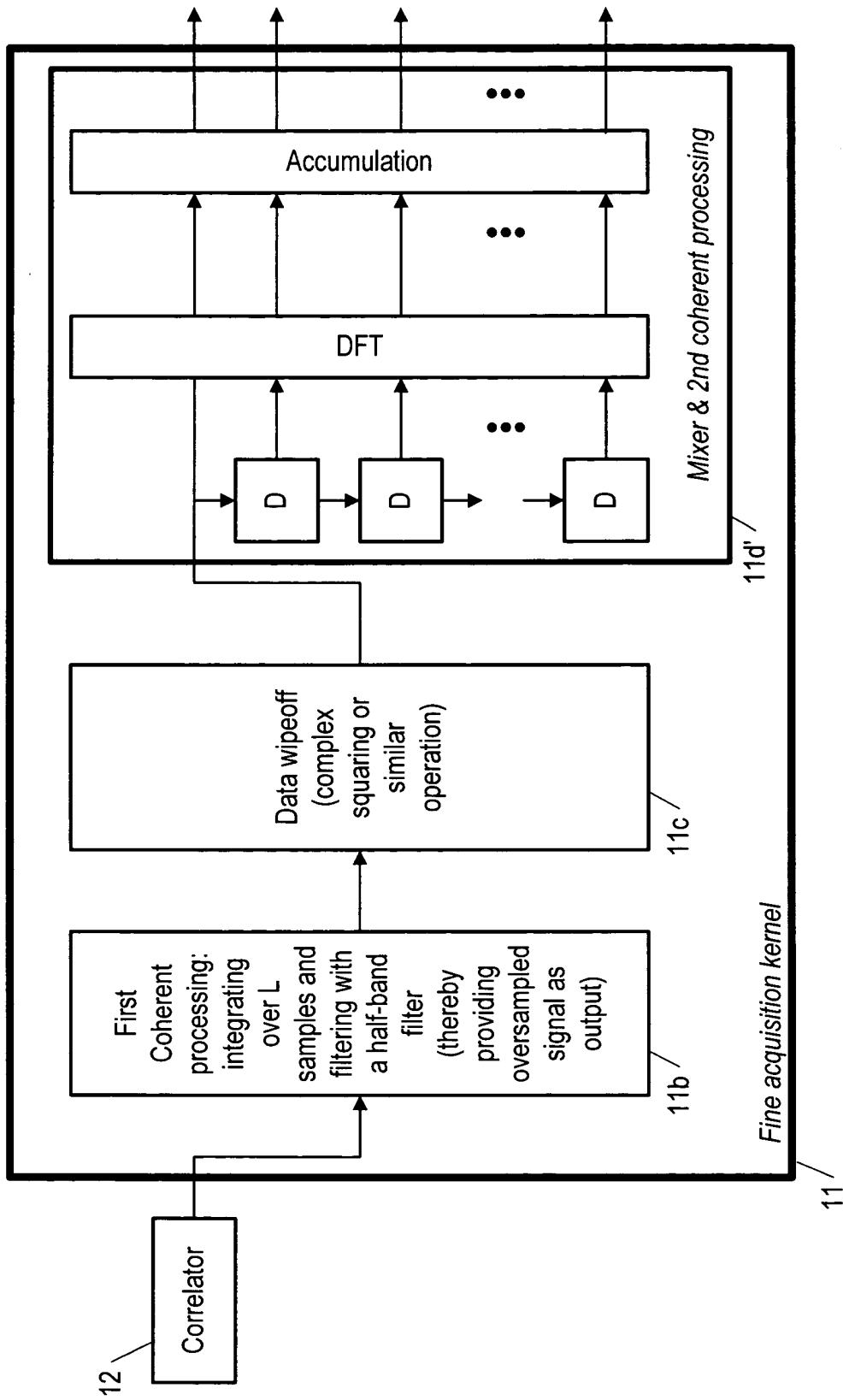


Fig. 3B



11 /

Fine acquisition kernel

Mixer & 2nd coherent processing

11d' /

11c /

11b /

Correlator

First  
Coherent  
processing:  
integrating  
over  $L$   
samples and  
filtering with  
a half-band  
filter  
(thereby  
providing  
oversampled  
signal as  
output)

Data wipeoff  
(complex  
squaring or  
similar  
operation)

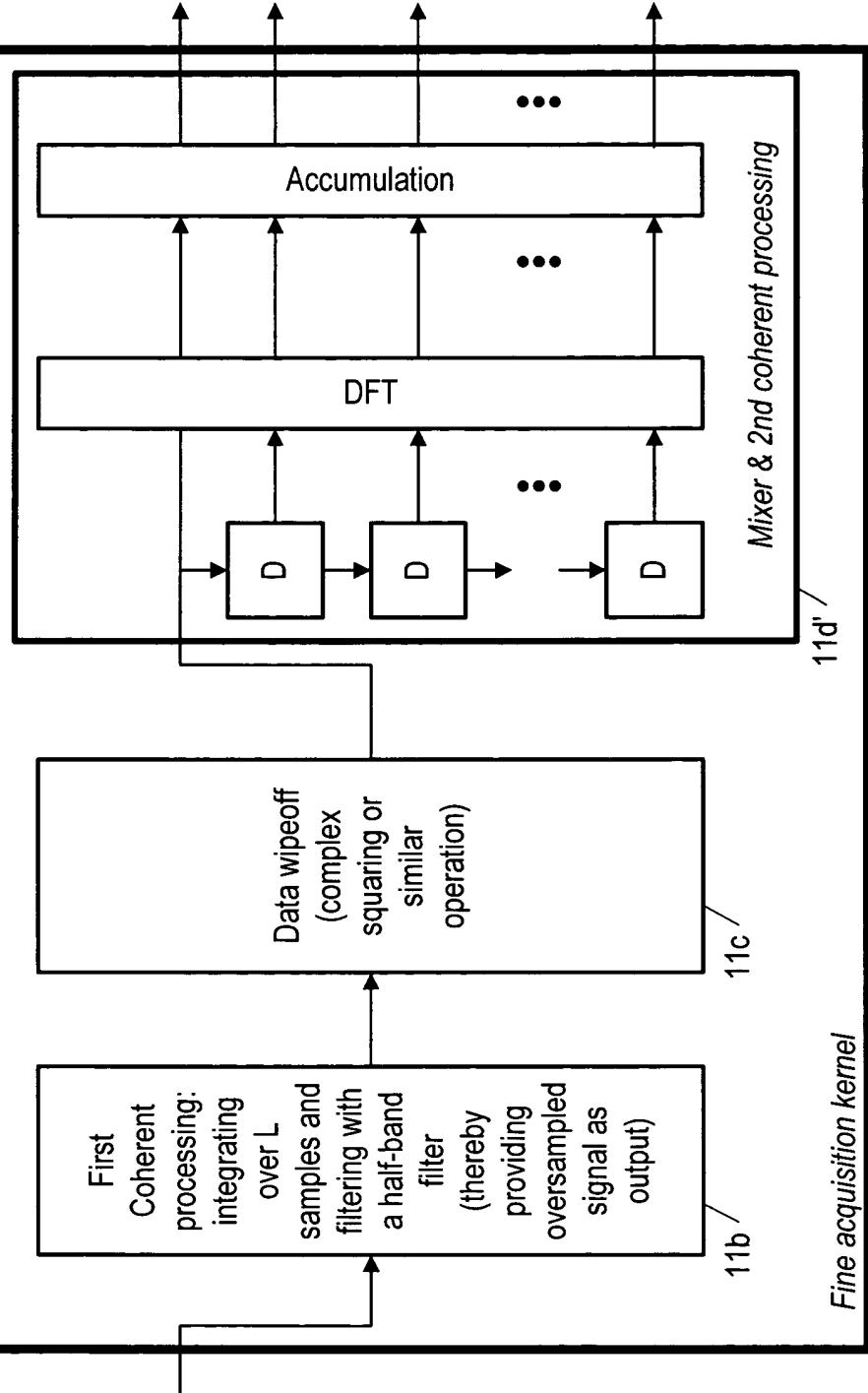
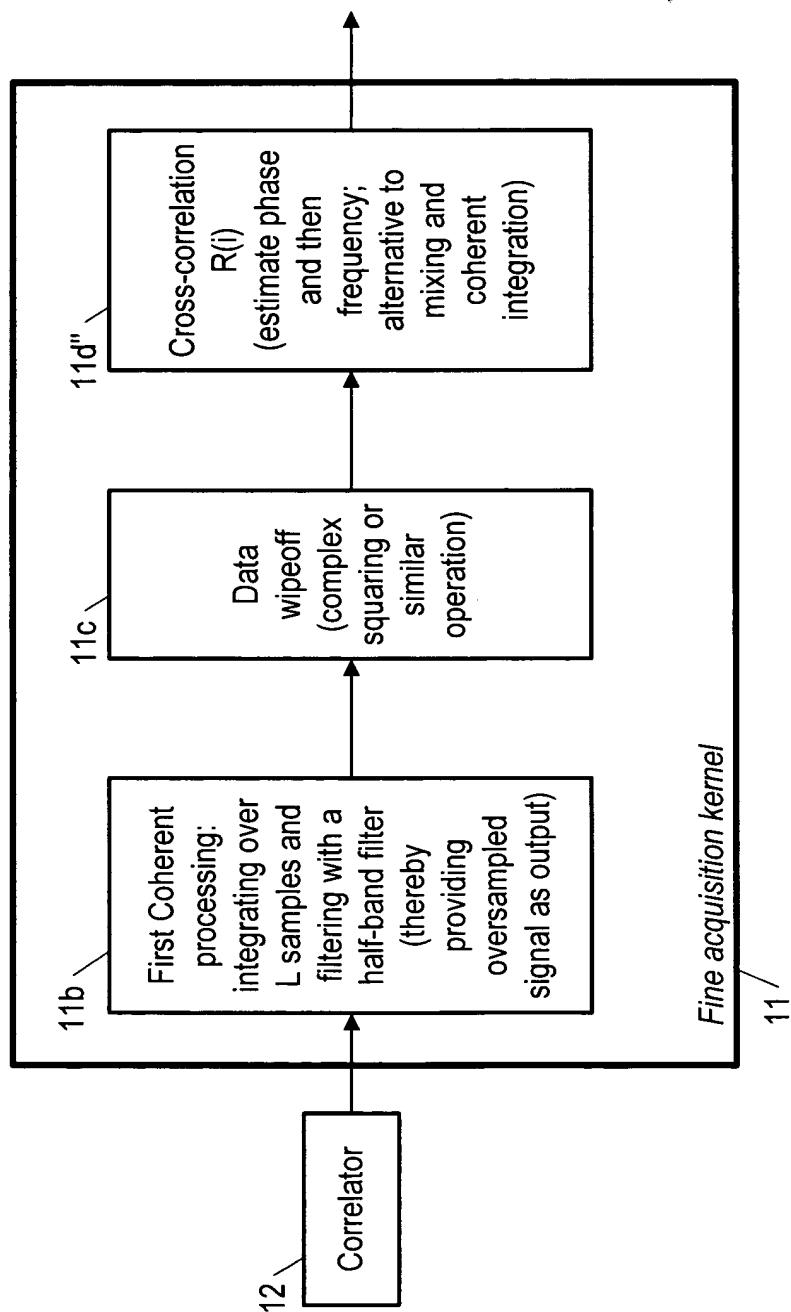


Fig. 3C



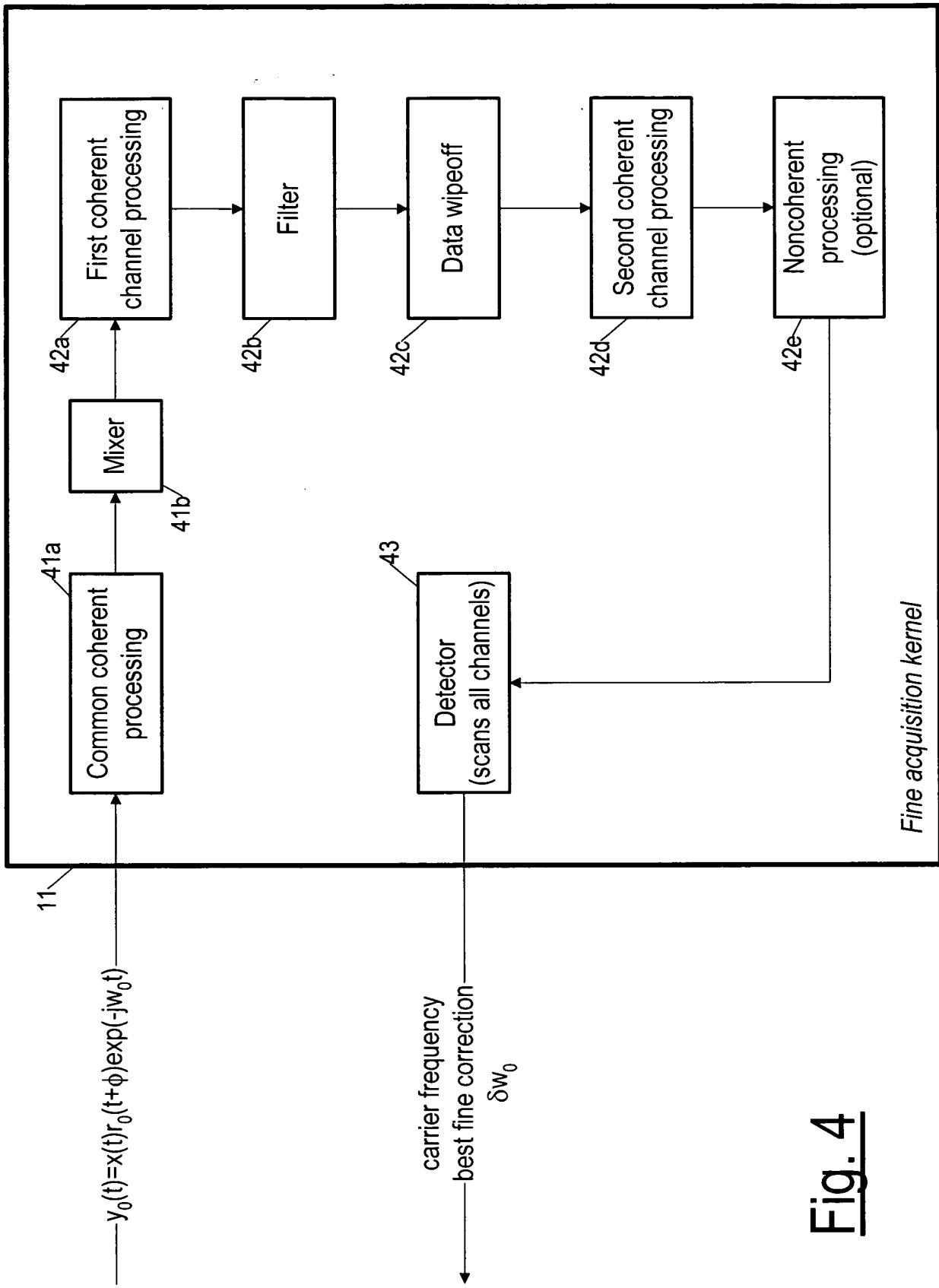


Fig. 4